

TOP SECRET

25

12 November 1965

Page 1
Copy IUNIDENTIFIED SURFACE-TO-AIR MISSILE LAUNCH EXERCISE

USSR

1. SIGNIFICANCE: OBSERVATION OF AN UNKNOWN SURFACE-TO-AIR MISSILE AND ITS ASSOCIATED GUIDANCE/TRACKING RADAR.
2. REMARKS: AN UNIDENTIFIED SURFACE-TO-AIR MISSILE AND ASSOCIATED MISSILE GUIDANCE/TRACKING RADAR WERE REVEALED IN THE FILM, "ROCKETS IN DEFENSE OF PEACE", WHICH WAS TELECAST ON MOSCOW TV ON 9 MAY 65, FOLLOWING THE MOSCOW PARADE OF THAT DATE.
3. LOCATION: ANALYSIS OF KNOWN SOVIET MISSILE RANGES REVEALS THAT THE FIRING SEQUENCE SHOWN IN THE FILM PROBABLY OCCURRED AT LAUNCH PAD B-1, LAUNCH COMPLEX B, SARY-SHAGAN ANTIMISSILE TEST CENTER.
4. MISSILE CHARACTERISTICS: PRELIMINARY ANALYSIS OF THE LAUNCH SEQUENCE ALLOWS DEFINITION OF SOME CHARACTERISTICS OF THE UNIDENTIFIED SURFACE-TO-AIR MISSILE SHOWN ON A RAIL-TYPE LAUNCHER:

These notes have been prepared for briefing purposes only and should not be used for detailed analytical work. Their use should be restricted to the particular briefing board(s) they were prepared for and must be considered valid only for the reporting period as indicated by the date of issue.

GROUP 1
Excluded from automatic
downgrading and
declassification

TOP SECRET2
2

TOP SECRET

25X

12 November 1965

Page 2

THE MISSILE DISPLAYS A ROCKET-POWERED BOOSTER AND PROBABLY USES A TANDEM BOOSTER/SUSTAINER COMBINATION WITH SEPARABLE BOOSTER.

THE BOOSTER'S FINS ARE RECTANGULAR, SIMILAR TO THOSE OF THE GOA'S BOOSTER.

THE SUSTAINER FINS APPEAR TO BE RELATIVELY LARGE DELTA-CONFIGURED SURFACES.

A TRAINABLE LAUNCH RAIL APPEARED TO LAUNCH THE MISSILE AT AN ELEVATION OF 50-60 DEGREES.

5. FIRE WHEEL CHARACTERISTICS:

FIRE WHEEL IS AN S-BAND FIRE CONTROL RADAR.

THE PARABOLIC DISH IS APPROXIMATELY

IN DIAMETER AND IS USUALLY MOUNTED NEAR THE

END OF A TWO-AXLE TRAILER. IT HAS 8 FULL

BRACES AND 8 HALF RADIAL BRACES, THE LATTER

GOING FROM THE EDGE OF THE REFLECTOR TO A

RING BRACE WHICH IS ROUGHLY HALF THE DIAMETER

OF THE REFLECTOR.

6. FILMED RADAR CHARACTERISTICS:

THE RADAR SHOWN IN THE FILM SEQUENCE CONSISTS

OF 2 FIRE WHEEL DISHES, PEDESTAL-MOUNTED ON

A PLATFORM, AND A THIRD UNIDENTIFIED SMALLER

DISH, ESTIMATED TO BE APPROXIMATELY ONE-HALF

These notes have been prepared for briefing purposes only and should not be used for detailed analytical work. Their use should be restricted to the particular briefing board(s) they were prepared for and must be considered valid only for the reporting period as indicated by the date of issue.

TOP SECRET

25

TOP SECRET

12 November 1965

Page 3

THE SIZE OF EACH OF THE LARGER DISHES AND MOUNTED AT THEIR SIDE. THE PEDESTAL IS TYPICAL OF THAT OF A SINGLE STEERABLE DISH MOUNTING, WITH PROVISION ON TOP FOR 3 DISHES. THE CONFIGURATION OF THE ENTIRE SET IS THAT OF AN UNIDENTIFIED GUIDANCE/ TRACKING RADAR.

BASED ON [REDACTED] THIS RADAR IS IDENTIFIED AS PROBABLY LOCATED ADJOINING THE NW CORNER OF THE UNDERGROUND CONTROL CENTER NEAR LAUNCH PADS B-1 AND B-2.

25

7. FILMED RADAR CAPABILITIES:

THIS EQUIPMENT APPEARS TO HAVE A 360 DEGREE TRACKING CAPABILITY. IN THE FILM SEQUENCE, THE RADAR WAS SHOWN MOVING FROM A STOWED TO A TRACKING POSITION DURING THE MISSILE LAUNCH, WITH THE BORESIGHT GENERALLY ORIENTED TOWARD THE LAUNCH PAD. AT LEAST THE 2 LARGE FIRE WHEELS MOVED IN THE SAME PLANE DURING THE ENTIRE SEQUENCE. THE SMALLER UNIDENTIFIED DISH IS OBSCURED BY THE LARGER DISHES DURING THE MAJORITY OF THE FILM SEQUENCE.

These notes have been prepared for briefing purposes only and should not be used for detailed analytical work. Their use should be restricted to the particular briefing box only for the reporting period as indicated by the date of issue.

TOP SECRET

25

TOP SECRET25X
25X

12 November 1965

Page 48. ADDITIONAL OBSERVATIONS:

A SUSPECT SECOND UNIDENTIFIED GUIDANCE/

TRACKING RADAR IS OBSERVED ON [REDACTED] 25X

[REDACTED] ADJOINING THE NE CORNER OF THE 25X

CONTROL CENTER. THIS WAS NOT OBSERVED

IN THE SOVIET FILM. IT IS POSITIONED

ON A PLATFORM AND PEDESTAL SIMILAR TO

THAT PREVIOUSLY DESCRIBED. DETAILS OF THE

DISH CANNOT BE OBSERVED.

IN THE FILM SEQUENCE, A SEMI-CIRCULAR WALL,

PARTIALLY EMCOMPASSING THE LAUNCH POSI-

TION, IS OBSERVED. THIS IS SIMILAR TO

THE WALLS WHICH PARTIALLY EMCOMPASS LAUNCH

PADS B-1 AND B-2 AT LAUNCH COMPLEX B.

These notes have been prepared for briefing purposes only and should not be used for detailed analytical work. Their use should be restricted to the particular briefing board(s) they were prepared for and must be considered valid only for the reporting period as indicated by the date of issue.

25X

TOP SECRET

TOP SECRET

25X

12 November 1965

Page 5

PREPARED BY: CSD/Research Branch

DISTRIBUTION:

- Copy 1. Director, NPIC
2. Chief, CSD/REF/BB Unit
3. DIA [REDACTED]
4. Chief, IAD
5. RB/CSD/NPIC
6. PAG, (Attn: [REDACTED])
7. Files/SBS/RB/CSD

25X

25X

These notes have been prepared for briefing purposes only and should not be used for detailed analytical work. Their use should be restricted to the particular briefing board(s) they were prepared for and must be considered valid only for the reporting period as indicated by the date of issue.

TOP SECRET

25